



PATENT ABSTRACTS OF JAPAN

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TRANSFORMING STATION**

receiving device, so that detection is conducted as a failure.

(57) Abstract:

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PURPOSE: To surely detect the failure of a receiving transforming station without receiving the influence of noise by using an optical fiber.

CONSTITUTION: An optical fiber 3 is arranged in the side face of a conductor 1 facing another conductor 2 between the conductor 1 of a main circuit charge part in a receiving transforming station and the conductor of another phase in parallel therewith or grounding metal 2. Constitution is performed in that the optical fiber 3 consists of a core 3a and coating 3b of its circumference, an end of the optical fiber 3 is connected to an emission device, the other end thereof is coupled to a light receiving device respectively, a light flux emitted from the emission device passes through the optical fiber 3 and reaches the light receiving device. When a failure occurs and an arc 5 produces between the conductor of the other phase or the grounding metal 2 and the conductor 1, the optical fiber 3 is fused by arc heat at a production part 4 of the arc 5, broken thereat and thereby the light flux passing through the optical fiber 3 is blocked at the arc production part 4 and not detected with the light

